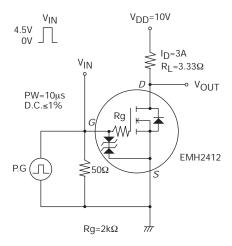
Electrical Characteristics at Ta=25°C

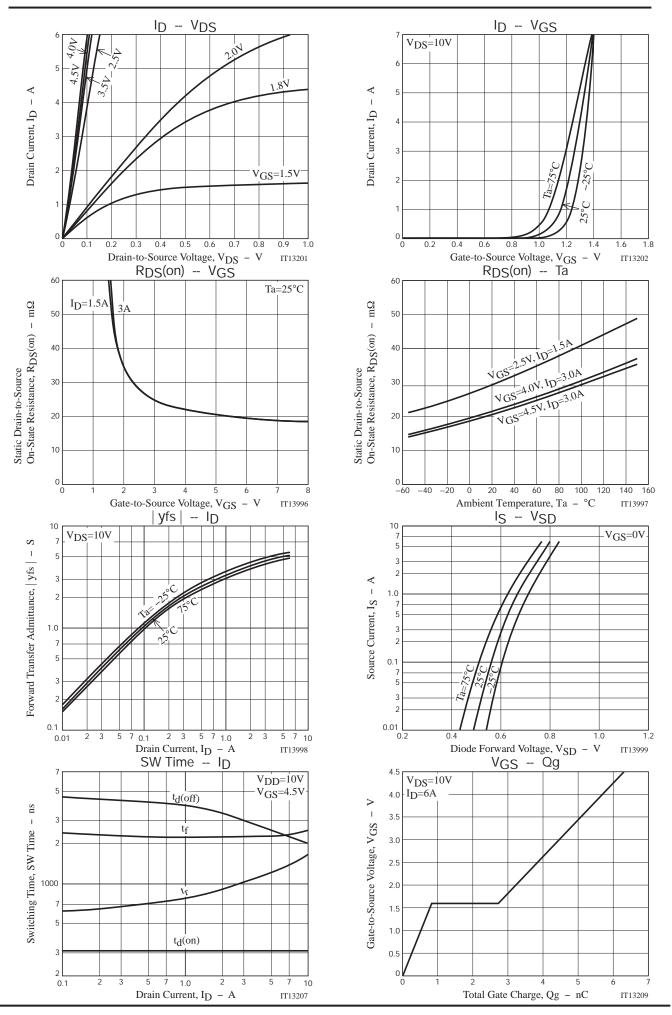
Parameter	Cymphal	Conditions	Ratings			Unit
Parameter	Symbol	Conditions	min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	24			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =20V, V _{GS} =0V			-1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±8V, V _{DS} =0V			±10	μΑ
Cutoff Voltage	VGS(off)	V _{DS} =10V, I _D =1mA	0.5		1.3	V
Forward Transfer Admittance	yfs	V _{DS} =10V, I _D =3A	2.8	4.8		S
	R _{DS} (on)1	I _D =3A, V _G S=4.5V	16	21	27	mΩ
Static Drain-to-Source On-State Resistance	R _{DS} (on)2	I _D =3A, V _G S=4V	17	22	29	mΩ
Static Drain-to-Source On-State Resistance	R _{DS} (on)3	I _D =3A, V _G S=3.1V	18	25	34	mΩ
	RDS(on)4	ID=1.5A, VGS=2.5V	21	30	42	mΩ
Turn-ON Delay Time	t _d (on)			310		ns
Rise Time	t _r	See appointed Test Circuit		1020		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		3000		ns
Fall Time	tf			2250		ns
Total Gate Charge	Qg			6.3		nC
Gate-to-Source Charge	Qgs	V _{DS} =10V, V _{GS} =4.5V, I _D =6A		0.83		nC
Gate-to-Drain "Miller" Charge	Qgd			1.9		nC
Diode Forward Voltage	V _{SD}	I _S =6A, V _{GS} =0V		0.8	1.2	V

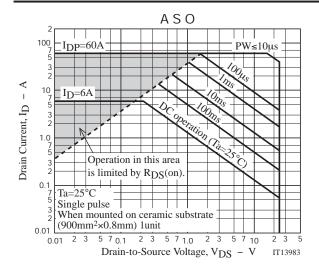
Switching Time Test Circuit

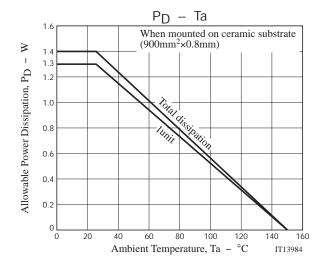


Ordering Information

Device	Device Package		memo		
EMH2412-TL-H	EMH8	3,000pcs./reel	Pb Free and Halogen Free		





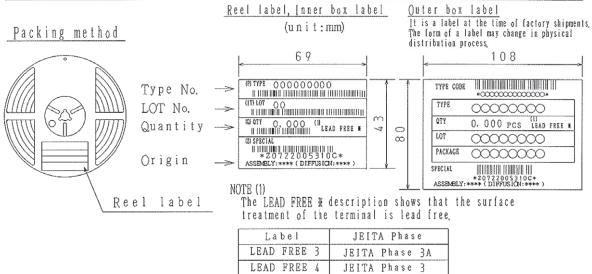


Embossed Taping Specification

EMH2412-TL-H

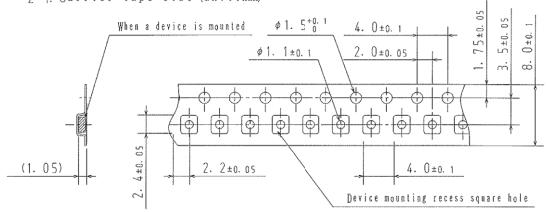
1. Packing Format

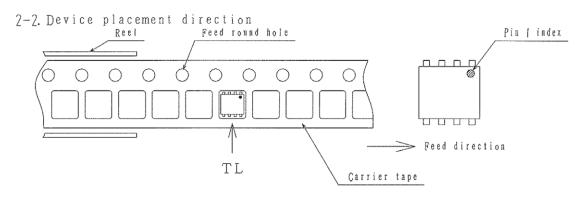
Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing format		
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)	
EMH8	MCP4	3, 000	15, 000	90, 000	S reels contained	6 inner boxes contained	
	Takana ka				Dimensions:mm (external)	Dimensions:mm (external)	
					183×72×185	440×195×210	



2. Taping configuration

7-1. Carrier tape size (unit:mm)





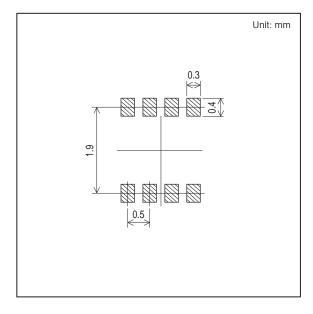
Those with pin | index on the feed hole side·····TL

Outline Drawing

EMH2412-TL-H

Mass (g) Unit 0.008 mm 2.0±0.04 8 7 6 5 LOT No. 10 125 10 15 10 125

Land Pattern Example



Note on usage: Since the EMH2412 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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